CALIFORNIA DE LA COMPANSA DE PORTE DE CARDO CARDO PORTA ME LA CARGO CARDO COMPANSA DE LA CARDO C

KANEYSKIY, L.M., inshener.

Specialization and cooperation of plants of the electric industry. Vest. elektroprom. 27 no.2:33-34 P *56. (MIRA 9:7)

1.Giproenergopron Ministerstva elektropromyshlennosti.
(Electric industries)

FRETSHAN, Te.M., kandidat ekononicheskikh nauk; KAMEVSKIY, i.M., inzhener.

Studying the economics and organization of production in the electric machinery industry. Vest.elektroprom. 27 nc.9:72-74 S '56.

(MERA 10:9)

1. Manchino-issledovatel'skiy institut Ministerstva elektrotekhnicheskoy promyshlennosti (for Pel'tsman). 2. Giproenergoprom (for Kanevskiy).

(Slectric machinery industry)

THE CONTRACTOR OF THE PARTY OF

Increasing labor productivity in electric machinery manufacturing,
Vest.elektroprom. 27 mo.12:3-6 D *56. (MEMA 10:1)

1. Giproemergoprom. (Slectric machinery industry)

KANEVSKIY, L.M., inzh.

Block installation of electrical equipment and industrial combinations.

Vest. elektroprom. 32 no.9:17-20 S '61. (MIRA 14:8)

(Electric industries) (Electrification)

ACC NR: AP6029027

SOURCE CODE: UR/0413/66/000/014/0030/0030

INVENTOR: Kanevskiy, L. S.; Sinyavskiy, B. S.

ORG: None

TITLE: Jacketed sectional tubular heat exchanger made from graphitized carbon.

Class 17, No. 183774 [announced by the Movocherkassk Electrode Plant (Novocherkasskiy elektrodnyy zavod)]

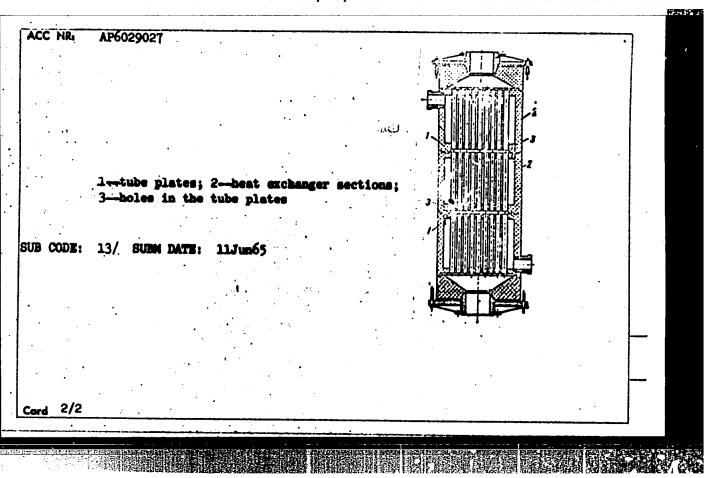
SOURCE: Isobret prom obras tov sn, no. 14, 1966, 30

TOPIC TAGS: heat exchanger, corrosion resistance, carbon

ABSTRACT: This Author's Certificate introduces: 1. A jacketed sectional tubular heat exchanger for aggressive media made from graphitized carbon. This unit is designed for multiple passage of the heat exchanging agent in the area between the tubes. The tube plates of each section have holes which permit the flow of the heat exchanging agent from one section to another, thus simplifying the construction. 2. A modification of this heat exchanger in which the holes in the tube plates are located along the periphery of the plates in diametrically opposite directions to increase exposure to the heat exchanging agent.

Card 1/2

UDC: 621,565.946,541.427.7



Mechanising the processes of shaping and drying battery plates.

Mekh.i avtom.proisv. 14 no.12:30-32 D '60. (MIRA 13:12)

(Storage batteries)

A THE CONTRACT OF THE PROPERTY AND ASSESSMENT OF THE CONTRACT OF THE CONTRACT

KUCHER, D.A., insh.; KANEVSKIY, L.S., insh.

Storage batteries. Vest. elektroprom. 31 no.11:75-76 H *60.

(Storage batteries)

SLOWIMER, B.M., insh.; KAMEVSKIY, L.Ye., insh., retsensent; ARAKUMOV, G.I., insh., red.; MOLYUKOV, G.A., red.isd-va; SOKOLOVA, T.F., tekhn.red.

[Assembly of equipment and plants of the food industry; a reference menual] Montash predpriiatii pishchevoi promyshlennosti; kratkoe spravochnoe posobie. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1960. 376 p.

(Food industry-Equipment and supplies)

(MIRA 13:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

KANEVSKIY, L.Ya.

Improve construction in the sugar industry and reduce its costs. Sakh.prom. 35[i.e. 36] no.2:45-48 F *162. (MIRA 15:4)

1. Gosudarstvennyy nauchno-ekonomicheskiy sovet Soveta Ministrov SSSR.

(Sugar industry)

ACC NRI AP6033280

SOURCE CODE:

UR/0141/66/009/005/0867/0875

AUTHOR: Kanevskiy, M. B.

ORG: Scientific Research Radiophysics Institute at the Gor'kiy University (Nauchnoissledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete)

TITLE: Propagation of millimeter and centimeter radio waves in troposphere waveguide close to the surface of the sea

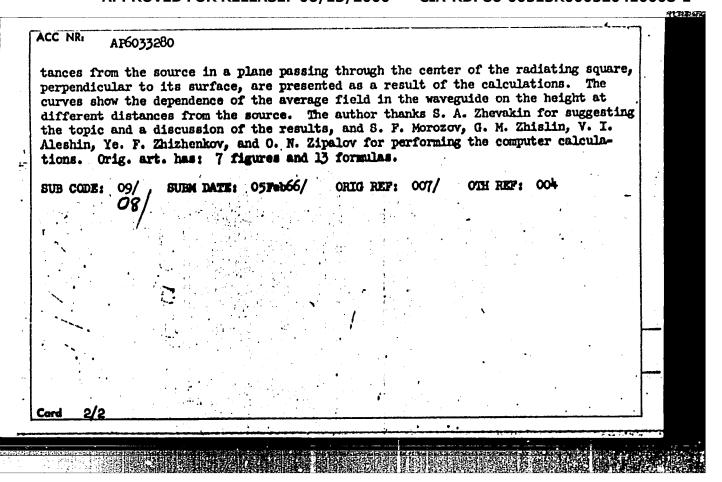
SOURCE: IVUZ. Radiofizika, v. 9, no. 5, 1966, 867-875

TOPIC TAGS: tropospheric radio wave, millimeter wave propagation, centimeter wave, waveguide propagation, sea water, surface property, electromagnetic wave scattering

ABSTRACT: The author calculates the average field of radio waves in the waveguide produced over the surface of the sea, making allowance for a greater degree of waviness for steeper roughness of the sea than in earlier calculations. The radiator is assumed to be a vertical elementary dipole situated below the inversion layer and radiating in a spherical layer of atmosphere over a spherical Earth surface. Scattering by the sea waves is taken into account by using a semi-empirical formula for the reflection coefficient over the averaged field, assuming the waves to have a normal statistical distribution and disregarding of the shadowing of certain waves by other waves. The altitude variation of the refractive index in the waveguide is approximated by a formula that gives a near-hyperbolic decrease at high altitudes and a linear decrease at low altitudes. Vertical sections of the field for different dis-

Card

UDC: 621.371.242.7.029.6



ADAS'KO, V.I., inzh.; KANEVSKIY, M.M., inzh.; PHRE, R.R., inzh.

External memory unit for electronic computers. Elektrotekhnika
35 no.7:62-64 '64. (MIRA 17:11)

ACCESSION NR: AP4041574

5/0292/64/000/007/0004/0010

AUTHOR: Kagan, B. M. (Doctor of technical sciences); Dolkart, V. M. (Candidate of technical sciences); Novik, G. Kh. (Candidate of technical sciences); Stepanov, V. N. (Engineer); Kaneyakiy, M. M. (Engineer); Luk'yanov, L. H. (Engineer); Tanayev, H. Ya. (Engineer); Polyakov, V. N. (Engineer); Kolty*pin, I. S. (Engineer); Ul'yanova, Ye. K. (Engineer); Adas'ko, V. I. (Engineer); Holchanov, V. V. (Engineer); Voitelev, A. I. (Engineer)

TITLE: VNIIEM-1 multipurpose control computer

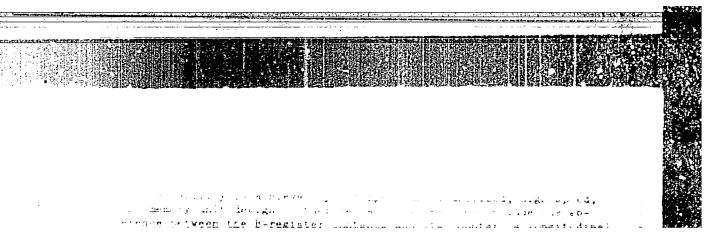
SOURCE: Elektrotekhnika, no. 7, 1964, 4-10

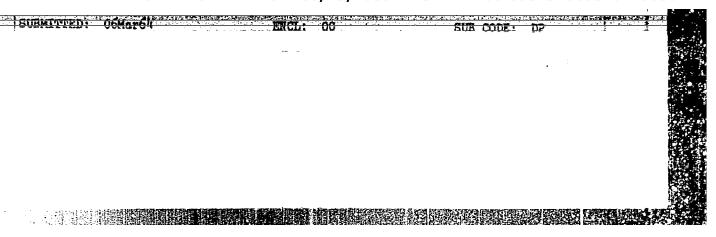
TOPIC TAGS: digital computer, multipurpose digital computer, control system, data reduction system, nutomatic data reduction

ABSTRACT: The Vsesoyuzny*y nauchno-issledovatel'skiy institut elektro-mekhaniki (All-Union Scientific Research Institute of Electromechanics) has developed a transistorized multipurpose digital computer and auto-matic data reduction system, the VNIIEM-1. The VNIIEM-1 comprises:

1) a ferrite-core memory unit which consists of 2048 locations each

ACCESSION NR: AP4041574 of which carries 35 binary digits; 2) includes an adder and a multiplier, as well as a trigger register; an arithmetic circuit which 3) a unit for controlling the ferrite-core memory unit, location and code-operation trigger registers, control-pulse shaping circuits, clock and command potentials, and auxiliary units for the control of information input and output. The digital computer performs the reduction of information and, provides for readout in digital form to the external channels. The VNIIBH-1 computer can be used for the control of various industrial processes. One such computer has been put into trial operation at the "Asovetal" factory. Orig art. has: 175 figures and 1 table. ASSOCIATION: none SUBMITTED: ATD PRESS: 3061 SUB CODE: ENCL: REF. SOV: OTHER: Card 2/2





"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000520410008-1

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L 39680-66 EWT(d)/EWP(v)/T/EWP(k)/EWP(h)/EWP(1) IJP(c) BB/GG/GD-2/BC ACC NR: AP6009500 SOURCE CODE: UR/0105/66/000/003/0001/0008

AUTHOR: Kagan, B. M. (Doctor of technical sciences, Professor);

Dolkart, V. M. (Candidate of technical sciences); Novik, G. Kh. (Candidate of technical sciences); Kanevskiy, M. M. (Engineer); Stepanov, V. N. (Engineer)

ORG: none

TITLE: Logical design of the VNIIEM-3 control computer

SOURCE: Elektrichestvo, no. 3, 1966, 1-8

TOPIC TAGS: digital computer, computer design, control computer / VNIIEM-3

ABSTRACT: The logical design of a new VNIIEM-3 universal control digital computer is explained. The computer is intended for complex automation of processes in various industries (metallurgical, chemical, electric-power,

Card 1/2

UDC: 681.142.322

L 39680-66

ACC NR: AP6009500

telescopes, etc.). The basic set of the new computer comprises: (1) A central digital computer operating in the real time scale at a rate of 40000 operations per sec; (2) A universal converter with 500 channels capable of analog-to-digital and vice versa signal conversion; (3) A start-stop photo-input device which takes information from a punch tape at a rate of 1000 words per sec and can be interrupted at any syllable; (4) A paper-tape puncher which takes information from the computer at a rate of 20 syllables per sec; (5) An electric typewriter (or teletype) delivering the alphanumerical information; (6) An interruption unit which interrupts the program on an external signal. The form and addressing of numbers, the system of program interruption, the multicomputer operation, the error checking and correction are also explained. Orig. art. has: 5 figures and 2 formulas.

SUB CODE: 09 / SUBM DATE: 31Mar65 / ORIG REF: 002 / OTH REF: 002

Card 2/2 Bd/

- a to total production of the delication of the

KANEVSKIY, M.V. (Tallin)

Sectorial geometrical characteristics of rolled I-beams; All-Union State Standard 8239-56. Stroi.mekh. i rasch.soor. 7 no.5:3 of cover '65. (MIRA 18:10)

PONCHARY, S.D., dektor teldm.nauk, prof.; MALININ, N.N., dektor teldm.nauk, prof.; KAMEVSKIY, N.V., insh. Reviews and Mibliography. Vost, machinestr. 46 no.1:86-94 Ja *66. (MIRA 1

KANEVS KIY STARCHERKO, V.F., golovnyy red.; KAMEYS'KIY, Q.P., red.; RUDBITS'KIY,P.V. red.; LUTSENKO, F.G., red.; BILOZUB, V.G., red.; PAVLENKO, M.K., red.; SVISTRL'NIK, A.M., red.; KHOTENKO, M.P., red.; ZADONTSEV, A.P., red.; POPOV, F.A., red.; DANILYUK, O.T., red.; TRITINCHENKO, A.P., red.; AKS ONOV, G.G., tekhn.red. [Agricultural manual for administrative personnel of province and district organisations, directors of machine-tractor stations, chairmen of collective farms and agricultural specialists] Posibnik po sel's'komu hospodarstvu dlia kerivnykh pratsivnykiv oblasnykh i rajonnykh organisatsiy, dyrektoriv MTS, holiv kolhospiv i fakhivtsiv silisikoho hospodarstva. Skladenyi za red.: V.F.Starchenka [and others] Holovnyi red.V.F.Starchenko. Kyiv, Dersh.vyd-vo sil's'kohospodars'koi lit-ry URSR. Book 1. 1946. (MIRA 11:1) 1269 p. 1. Chlen-korrespondent akademii-nauk URSR (for Starchenko). (Agriculture)

22 (1)

307/27-59-3-23/37

AUTHORS:

Zenin, I., School Director, and Kanevskiy, P., Deputy

Director.

TITLE:

In Creative Cooperation (V tvorcheskom sodruzhestve)

PERIODICAL:

Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 3,

p 25 (USSR)

ABSTRACT:

In the Trade School No 5, Kramatorsk, technical and other circles are working in close cooperation. During the last school year, 150 posters and 68 devices for the training shops were made by the circles. The author lists the work performed in the various vocations, stating that technical creation, rationalization and invention have become an integral part of the students vocational training. Machinists in the 1st class study the construction and operation principle of the vertical drilling machine 2118-A.

ASSOCIATION: Remeslennoye uchilishche No 5, Kramatorsk (Trade School

No 5, Kramatorsk).

Card 1/1

- 1. KANEVSKIY, P. V.
- 2. USSR (600)
- 4. Fisheries Kuban' River
- 7. Progressive work methods of Stakhanovites in enterprises of the Asov-Kuban' Fish Trust. Ryb. khos. 28, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

8(2), 9(6) AUTHOR:

Kanevskiy, P. Yu., Engineer

SOV/119-59-5-5/22

TITLE:

An Electronic Time Relay With Impulse Charging of the Condenser (Elektronnoye rele vremeni simpul'snym zaryadom kondensatora)

PERIODICAL:

Priboroatroyeniye, 1959, Nr 5, pp 9-10 (USSR)

ABSTRACT:

The present paper rejorts on the wiring of an electronic time relay with relatively small dimensions by which delay times up to ~10 minutes (with an accuracy of 0.3%) can be attained if a stabilized feeding source is available. This wiring is based on the principle that the charging of the condenser is preduced by an impulse voltage which is then transmitted by the primary element for the pulses. A diagram shows the course with respect to time of the feeding voltage and of the voltage applied to the capacitor. The black scheme of this relay is shown in a diagram. A formula is derived for the voltage to which the relay responds. After some computing operations, a rather extensive expression is obtained for the determination of the necessary delay time. A further figure shows the principal circuit diagram for a delay time of 5 minutes. The processes going on in the relay are indicated in their temporal order. There are 3 figures.

Card 1/1

- 1. KANEVSKIY, S.
- 2. USSR (600)
- 4. Wheat
- 7. In the world of new cereals, Kul't. -pros. rab., 8, No. 1, 1947.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

KANEVSKIY, S.

Fruit culture

How many fruit trees do we have? Ogonek 30 No. 37, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952, Unclassified

KANLVSKIY, S.

On - (M. Zh. S. -- Machine Supply Centers for Livertock Breeders); Payments for Services

Soviet Source: P: Ogonek No. 1 Moscow, 1 Jan. 1950 Abstracted in USAF" Treasure Island," on file in Library of Congress, Air Information Division, Report No. 20887. Unclassified.

ABELEV, Yu.M., professor, laureat Stalinskoy premii; KAMEVSKIT, S.B., inshener.

Experience in using water-saturated loss soils as foundations for blast furnaces. Stroi.pros. 32 no.3:6-11 Mr '54. (KLRA 7:5)

(Blast furnaces)

KANISHCHEV, V.G., inshener; KAMEVSKIY, S.B., inzhener; ROGINSKIY, M.Z., inshener; GITMAN, F.M., Extended technicheskikh nauk.

Large-panel slabs for flooring of industrial buildings.
Stroi. prom. 33 no.4:12-14 Ap '55. (MLRA 8:6)

1. Pridasprovskiy Prometroyproyekt (for Kanishchev, Kanevskiy).
2. Zavod Stroydetal' (for Roginskiy).
3. Dneprovskiy inshenerno-stroitel'nyy institut (for Gitman)
(Floors, Conorste)

- 1. KANEVSKIY, S.B. (ENGINEER), SHEVCHENKO, AL.
- 2. USSR (600)
- 4. Steel Works
- 7. Reconstruction of a steel smelting shop. Stroi. prom. 30 no. 6 1952
- 9. Monthly List of Russian Accessions. Library of Congress, August 1952. UNCLASSIFIED.

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| | | | بمراز المنت والمناه | ose of the All-D ation and Invent a Interprises," , 1 p | IVO IBIULIBUI | 70 ms vom- | |
| | | | "Yest Syja | 11 - Elektrosvyt | 2°" No 7 (1 | 100) | |
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"Activate Work in Inventions and Suggestions for Efficiency in Rayon Communications Offices," Vest. svyasi, No.7, pp 25-26, 1953

Translation No. 543, 27 Apr 56

"Results of the Competition for the Best Suggestions in the Field of Communications,"

Vest. Svyazi, No.8, pp 26-27, 1954

Translation Sum.No.440, 10 Aug 55

CAVRILOV, A.V.; KAMEVSKIY, S.G.

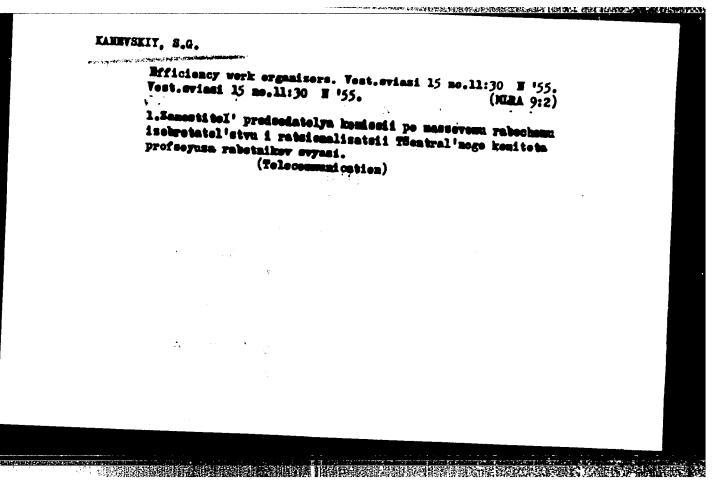
Results of the All-Union public review of efficiency work conducted in district communications offices. Vest.eviazi 14 no.4:29-30 Ap '54.

(Telecommunication) (MIRA 7:6)

USSR/Miscellaneous - Contests Card 1/1 Pub. 133 - 18/23 Authors Gavrilov, A. V., and Kanevsky, S. G. Title Results of a contest for the best suggestions in the field of communications Periodical Vest. svyazi 8, 26-27, Aug 1954 Abstract The results of the 1954 annual technical contest arranged by the Ministry of Communications for the best suggestions made in the communications field are described. The majority of suggestions were made in the field of telegraph communications and radio broadcasting; improved methods applicable to intraregional communications also were proposed. Frize-winning suggestions and winners are listed. Institution: Submitted

KANEVSKIY, S.G., otvetstvennyy red.; GAVRILOV, A. V., red.; KHELEMSKAYA, L.N., tekhn. red.

[Mfficiency promoters in regional communications centers] Ratsionalizatory raionnoi kontory sviazi. Moskva, Gos. izd-vo lit-ry pe voprosam sviazi i radio, 1955. 33 p. (MIRA 11:9) (Telecommunication)



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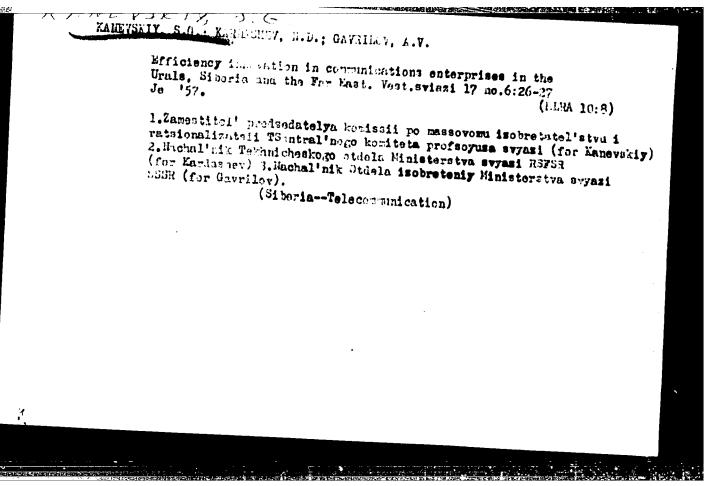
GAVRILOV, A.V.: KANHVSKIY, S.G.

CHEROLOGICAL CONTRACTOR OF THE CONTRACTOR OF THE

Multiply the ranks of communications innovators. Vest. eviami 17 no.5:27 My '57. (MLRA 10:5)

1. Machal'mik otdela isobretenniy Ministerstva svyazi SSSR (for Gavrilov). 2. Zamestitel' predsedatelya komissii po massovomu rabochemu isebretatel'stvu i rateionalisatsii TSentral'nogo komiteta profsoyusa rabotnikov svyasi (for Kanevskiy).

(Telecommunication)



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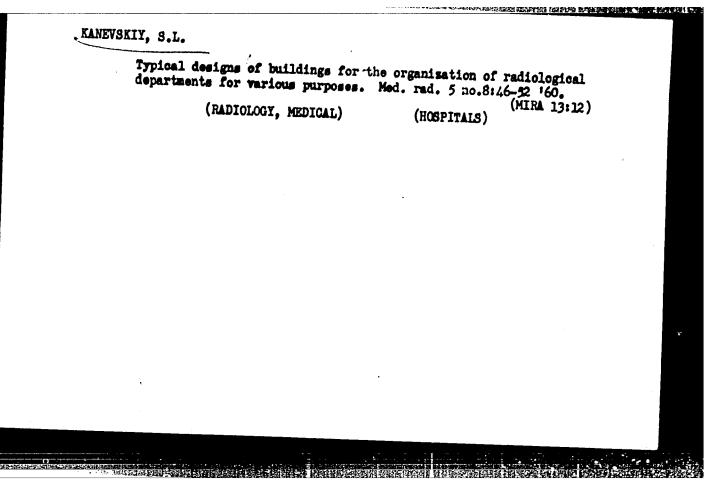
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Hapidly, eimply, accurately. Wauka i shisn' 23 no.5:49 '56.
(Corn (Maise)--Testing) (MLRA 9:8)

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Right hundred and thirty kilometers per hour. Hauka 1 shisn'
23 no.6:16 de '56. (MLRA 9:9)

(Aeromautics, Commercial) (Jet planes)



And a second sec

KANEVSKIY, S. L.

Details in planning the locations for medical linear accelerators. Med. rad. no.4:85-89 62. (MIRA 15:6)

(RADIOTHERAPY_EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

RAMEVSKIY, V. (g. Kamensk-Shakhtinskiy, Restevskaya eblast'); YEFIMAKA, I. (g. Kamensk-Shakhtinskiy, Restevskaya eblast').

Collars from imitation karakul. Prom.keep. no.9:13 S '56. (MEMA 9:10)

1.Predsedatel' pravleniya kellektiva arteli invalidev "Krasnyy Oktyabr'!" (for Kanevskiy).

(Fur, Artificial)

"More About Card-Receipts," Soviet journal "Radio," Issue No. 4, 1952.

Cholelithiasis. Med.sestra 18 no.4:20-24 Ap '59.

(CALCULI, BILIARY)

(MIRA 12:6)

- 1. KANEVSKIY, V. L.
- 2. SSSR (600)
- 4. Mose-Cancer
- 7. Case of cancer of the nasal septum. Vest. oto-rin. 14 Mo. 6, 1952

9. Monthly Lists of Bussian Accessions, Library of Congress, March 1953, Unclassified.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000520410008-1

KANEVSKIY, V.L.

U.S.S.R. / General Problems of Pathology. Tumors.

X-5

Abs Jour

: Ref. Zh.-Biol., No 2, 1958, No 7803

Author

: Tretyakova R, Ya., Kanevskiy, V.L.

Inst

Title

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: Adenomas of the Trachea.

Orig Pub

: Tr. Gos. N.-I. In-ta. UKha, Gorla i Nosa, 1956, VYP. 7,

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202-206

Abstract : No abstract.

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KANEVSKIY, V.L., kand.med.nauk

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008

Diseases of meatus acusticus extermus. Med. sestra 21 no.2:22-28

F 162. (MIRA 15:3)

1. Iz Otorinolaringologicheskogo otdeleniya klinicheskoy ordena Lenina bol'nitsy imeni S.P. Botkina, Moskva.
(EAR-DISEASES)

KANEVSKIY, V.L., kand.med.nauk.

Plasmacytoma of the pharynx and the larynx. Zhur.ush., nos. 1 gorl.bol.23 no.3:74-75 My-Je¹63. (MIRA 16:7)

1. Iz Moskovskoy klinicheskoy ordena Lenina bolinitsy imeni S.P.Botkina (glavnyy vrach - dotsent Yu.G.Antonov). (LARYNY-TUMORS) (PHARYNY-TUMORS)

KANEVSKIY, V.L., kand. med. nauk (Moskva)

So-called Mondor's disease. Klin. med. 41 no.6:150-152 Je '63. (MIRA 17:1)

1. Is Bol'nitsy imeni S.P. Botkina (glavnyy vrach - dotsent Yu.G. Antonov), Moskva.

BUROV, Anatoliy Ivanovich; SHTERFNHERG, Yevgenly Izmilevich; KANEVSKIY, Vladimir Leonidovich; TRAYHIR, D.L., retsenzent

[Automatics of sintering plants in nonferrous metallurgy] Avtomatizatsiia aglomeratsioniykh tsekhov tsvetnoi metallurgii. Moskva, Metallurgiia, 1965. 167 p. (MIRA 18:5)

Konevskiy, V.M.

133-12-6/26

ALESSEE EXISTS SERVED STRUCKERS BEING A REACHT OF THE PROPERTY OF THE PROPERTY

AUTHORS: Bedel'yan, L.P., Zhilyakov, I.G., Kanevskiy, v.H.,

Rysev, A.I., and Urinson, A.I., Engineers.

Operation of 185-ton Open Hearth Furnaces on Natural Gas TITLE: (Rabota 185-t martenovskikh pechey na prirodnom gaze)

PERIODICAL: Stal', 1957, No.12, pp. 1082 - 1085 (USSR).

Operation of a 185-ton open hearth furnace fired with ABSTRACT: natural gas carburised with fuel oil is described. Originally designed and actually used gas-oil burners are shown in Figs. 1 and 2, respectively, and the gas installation used in Fig. 3. For the atomisation of the fuel oil, the use of gas and steam was tried. Operational indices of best heats and a comparison of the furnace operation when fired with gas-fuel oil, gas-fuel oil (atomised with steam) and fuel oil alone are given in Tables 1 and 2, respectively. It is concluded that on transfer of furnace from oil to natural gas (10 atm.) firing the output will not decrease only if high pressure superheated steam is used for the atomisation of fuel oil. The flame obtained with natural gas, carburised with 25% of oil has similar properties as fuel-oil flame. A proposal is made to carry out experiments on firing an open hearth furnace with natural gas preheated to 250-300 °C, as well as with gas of increased pressure (13 - 15 Cardl/2tm.). There are 2 tables and 3 figures.

CIA-RDP86-00513R000520410008-1 "APPROVED FOR RELEASE: 06/13/2000

133-12-6/26

Operation of 185-ton Open Hearth Furnaces on Matural Gas

ASSOCIATION:

Taganrog Metallurgical Works im. Andreyev (Taganrogskiy metallurgicheskiy zavod imeni Andreyeva)

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

APONCHIKOV, N.A., insh.; KANBYSKIY, V.M., insh.

Remote control of a papermaking machine. Bum. prom. 35 no.4:19-20 Ap 160. (MIRA 13:10)

1. Leningradskaya bumashnaya fabrika Gosnaka.
(Leningrad--Papermaking machinery)

| ı A. | AND VOLIT V. H. |
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| | H. P. Dobychin, V. N. KANEVSKIY, co-authors of Kozhnyy ovod i bor'ba s nis |
| ((| Outaneous Botfly and Its Control*) Chkalov, Chkal. izd. 1951. 6 peges (Chkal. |
| | |
| ' | eterinary Division). Unbound. 1,500 copies. |
| SC | Report U-4502; 28 August 1953. |
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| (1 | From: HIN BOOKS ON VETERINARY MEDICINE Veterinaryiya, No. 11, pp. 63,64, Nov. 1951. |
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NO SOU, N. M., SURNACHEV, A. V., and KANEVSKI, V. N., Director Chkalov Oblast Veterinary Polyclinic

"Study of the role of sheep in the epizootiology of malignant catarrhal fever of cattle".

SD: Veterinariia, 29(3), 1952, p. 34.

Increasing the operating efficiency of pistonless jigging machines.

Koks i khim. no.7:21-27 '59. (MIRA 12:10)

1. Dnepropetrovskiy gornyy institut (for all except Lokshin).

2. Makeyevskiy koksokhimicheskiy savod (for Lokshin).

(Coal preparation--Equipment and supplies)

KANEYSKIY, V.P., LEVIN, S.T.; LIBERMAN, M.L.; LIVSHITS, G.L.; RAYVICH, I.D.; SHKITIN, V.I.

Concentration of slurries in a centrifugal force field. Koks. 1 khim. no. 3:15-18 161. (MIRA 14:4)

Dnepropetrovskiy gornyy institut (for Kanevskiy. Levin, Liberman).
 Nikitovskaya TSentral'naya ugleobogatitel'naya fabrika (for Livshits, Rayvich, Shkitin).
 (Coal preparation)

LEVIN, S.T., kand. tekhn. nauk; KANEVSKIY, V.P., gornyy inzh.

Arc-shaped screens. Gor. zhur. no.2:61-63 F'62.

1. Dnepropetrovskiy gornyy institut.

(MIRA 17:2)

KANLUSKIY, V.P.; LIBERMAN, M.L.; ZHOVTYUK, C.V.

Increasing the productivity and efficiency of the operation of jigging machines without pistons as practiced at the Dzerzhinskii ore dressing plant. Izv. DGI 42:295-298 164. (MIRA 18:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

\$/139/62/000/006/018/032

AUTHORS:

Gorelik, S.I., and Kanevskiy, V.P.

TITLE:

The influence of pressure on the resistance and capacitance of plates of selenium and copper oxide

rectifie'rs

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.6, 1962, 121-124

TEXT: Semiconductor rectification occurs in the very thin barrier layer, which is of very high impedance. Pressures not exceeding the elastic limit, i.e. up to 200 atm, were applied to sclenium and copper oxide rectifiers and the resistance and capacitance were determined by the bridge method in the blocking or reverse direction. An increase in pressure from 20 to 180 atm causes a steady decrease in resistance of about 15%, whilst the capacitance increases by about 5% for an increase from 1 to 200 atm. The effects observed cannot be accounted for by reduction in the energy of activation, which must be quite small with the pressures used; they are accordingly mainly attributed to reduction in the thickness of the barrier layer. Under steady-state Card 1/2

The influence of pressure on ... S/139/62/000/006/018/032 E194/E155

conditions the magnitude of the contact field stress acting on the barrier layer governs the degree of its polarisation. Compressing the barrier layer alters the contact field stress and hence the polarisation and permittivity. Thus the change in capacitance under compression is probably due both to the change in thickness of the barrier layer and to change in the permittivity.

There are 4 figures.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo

transporta

(Byelorussian Institute of Railway Transport

Engineers)

SUBMITTED: November 15, 1961

Card 2/2

- 1. KANEVSKIY, YA. F.
- 2. USSR (600)
- 4, Labels
- 7. On the problem of introducing labels in pharmacies. Apt. delo no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, Fabruary 1953, Unclassified.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

85064

1,2000 (2408 may)

S/024/60/000/005/010/017 £194/£484

AUTHOR:

Kanevskiy, Ya.M. (Moscow)

TITLE:

Some Problems in the Fluxless Soldering of Aluminium and its Alloys With Low Melting Point Solders

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, No.5, pp.146-149

TEXT: The use of aluminium in electrical engineering is retarded by the difficulty of making reliable joints of low electrical resistance. This article describes new and simple methods of tinning and soldering products of aluminium and its alloys, with low melting point solders. The abrasive method of tinning is first described. Abrasive pencils or wheels are made up from shavings of the metal to be used as a solder pressed together with powdered asbestos which serves as an abrasive. The abrasive forms about 10% by weight of the finished wheel, no binder should be used to avoid contamination. The shavings and asbestos are compressed cold at a pressure of 6000 to 7000 kg/cm². In order to tin an article it is heated to a temperature some 25 to 50°C above the melting point of the solder in the abrasive wheel and then the oxide film on the surface is rubbed off with the wheel until the Card 1/4

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S/024/60/000/005/010/017 E194/E484

Some Problems in the Fluxless Soldering of Aluminium and its Alloys With Low Melting Point Solders

characteristic metallic sheen on the tinned surface is produced. The abrasive method of tinning can easily be mechanized and an installation for tinning aluminium bushars is shown in Fig. 2. The abrasive method can be used to tin and solder aluminium foil of thicknesses down to 10 to 15 microns. No other method of tinning aluminium, including the ultrasonic method, can deal with such fine foils and wires as this method. With this method aluminium and its alloys can be tinned in the temperature range of 75 to 450°C. The substances used for tinning may be either pure metals such as zinc, tin or cadmium or their alloys, sometimes with additional components to reduce the melting point or increase the corrosion resistance such as aluminium, copper, silver, strontium, magnesium. The mechanical strength of joints made after tinning in this way is greater than that of joints made after tinning by other methods, including the ultrasonic method. In addition, the corrosion resistance is better. The abrasive method of tinning gives high outputs, the rate of manual tinning is 0.65 to 1.0 cm²/sec compared with 0.16 to 0.25 cm²/sec with ultrasonic tinning. A disadvantage

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

85064 \$/024/60/000/005/010/017

Some Problems in the Fluxless Soldering of Aluminium and its Alloys With Low Melting Point Solders

of the abrasive method of tinning is that it cannot be used on the internal surfaces of small diameter cylinders such as cable sheaths, or in small holes or for multicore aluminium conductors. abrasive-crystalline method of tinning is then described. case the abrasive itself consists of solder which is heated to a temperature within the crystallization range. The aluminium oxide film on the product to be tinned is broken down by crystals in the solder and the molten phase coats the clean surface. Alloys with a wide range of crystallization temperature are used. This procedure has been used successfully for soldering aluminium single-core and multi-core conductors into copper and aluminium terminals and for various other processes. Equipment that is used to solder aluminium multi-core conductors is illustrated schematically in Fig. 3 and is described. The terminal is fixed in a vertical position and rotated by an electric motor, it is filled with solder and heated up to a temperature within the range of crystallization. The end of the cable is then inserted and the terminal is rotated so that the solder in the terminal directly abraids the aluminium Card 3/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

E194/E484

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S/024/60/000/005/010/017 E194/E484

Some Problems in the Fluxless Soldering of Aluminium and its Alloys With Low Melting Point Solders

oxide from the end of the cable. After a suitable time rotation ceases and the terminal is heated to a temperature at which all the solder is molten. Joints of this kind are found to have reliably low electrical resistance and they are of superior mechanical strength. Relatively high temperature solders can be used for this purpose so that joints can be made for reliable operation at an ambient temperature of about 250°C. A procedure has also been worked out for fixing terminals to cables that are already in position. Soldering baths for use with the method are described. The abrasive and abrasive-crystalline methods of tinning can be used with aluminium magnesium alloys and aluminium magnesium silicon alloys of various kinds and also with alloys of aluminium with copper and magnesium or zinc copper and magnesium and others. The equipment required is relatively cheap, much cheaper than that required with the ultrasonic method. There are 3 figures and 1 Soviet reference.

V

SUBMITTED: Card 4/4 April 4, 1950

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000520410008-1"

KANEVSKIY, Ya.M., inzh.

Selection of relay protection system for operation during nonsymmetrical short circuits. Energ. i elektrotekh. prom. no.3:20-21 J1-S *65. (MIRA 18:9)

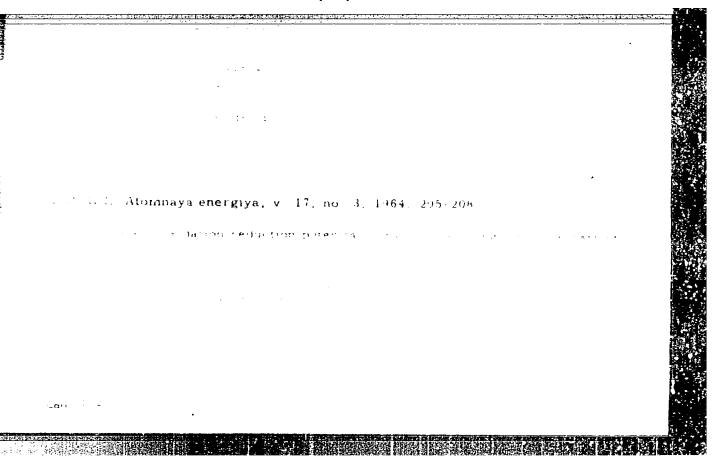
KANEVSKIY, Ye.A.; FILIPPOV, A.P.

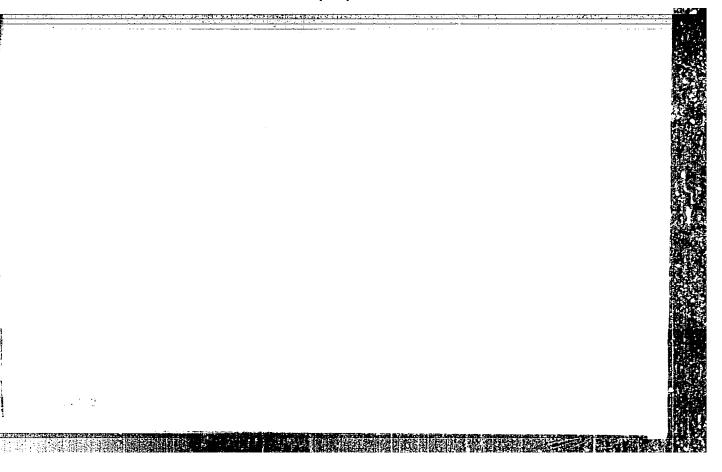
Effect of the ionic composition of solutions of iron (III) on the dissolution of uranium dioxide. Radiokhimiia 5 no.5:602-608 163.

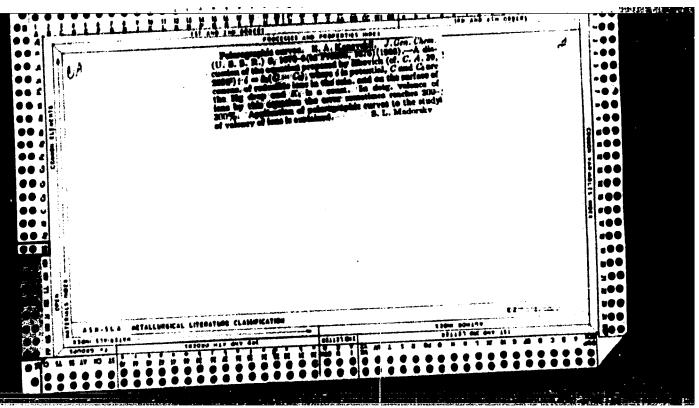
(MIRA 17:3)

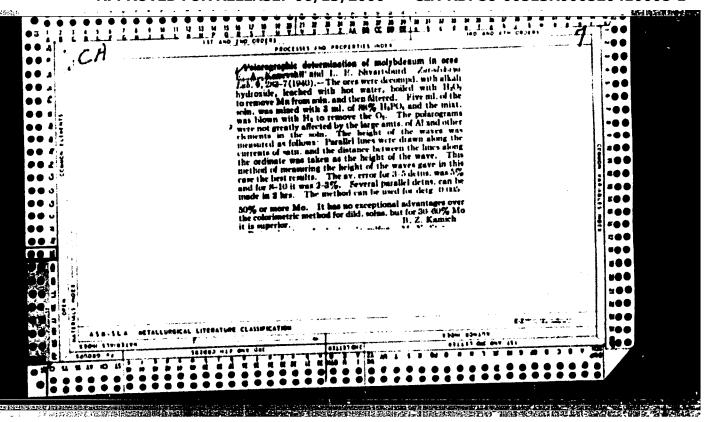
KANEVSKIY, Ye.A.; FILIPPOV, A.P.; VEL'MATKIN, M.I.

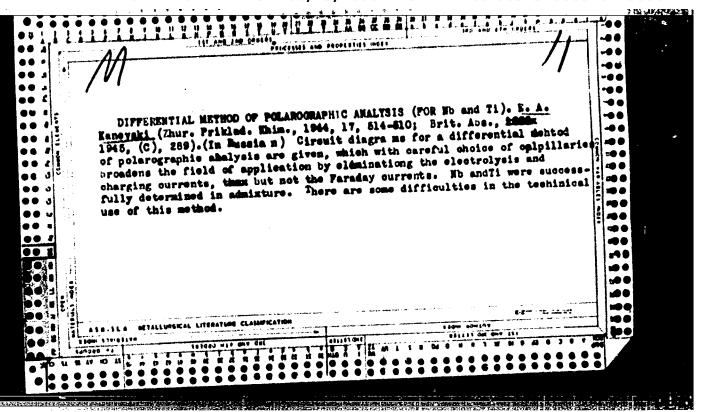
Optimal region of pH in the sulfuric acid dissolution of uranium dioxide in the presence of various oxidizers and Fe (II) ions. Radiokhimiia 5 no. 6:741-744 '63. (MIRA 17:7)











KAMEVSKII, E.A.

E.A. Kanevskii, On the theory of the electrode potential. I. The nature of the electrode potential and the question concerning the possibility of calculating the ebsolute potential. Pp. 1397-1404.

Pp. 1397-1404.

It is shown that the absolute potential of the electrode is:

$$E A^{2} L^{9} m - \frac{m}{W} = L^{9} m + m^{9} \circ - \frac{m^{8} \circ w}{W}$$

$$const = - [L^{9} m + m^{9} \circ - \frac{m^{8} \circ w}{W}]_{0} = \sum_{n=0}^{\infty} a_{n}$$

where \(\int \frac{0}{a} \) is the absolute potential of the standard zero electrode.

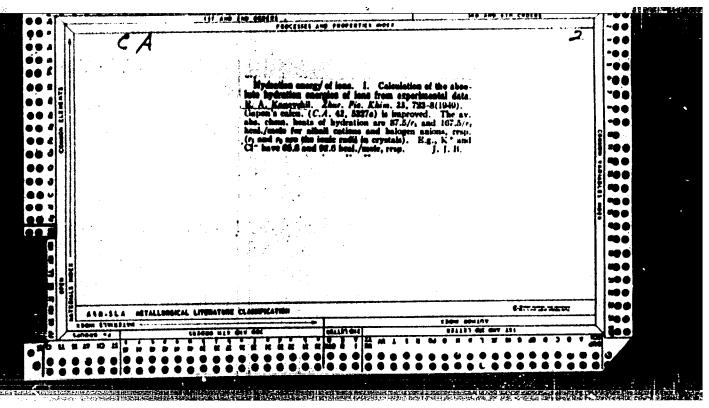
State Institute of Rare and Small Metalo Moscow December 12, 1947

SO: Journal of Physical Chemistry (USSR) 22, No. 11, 1948

KANEVSKII, E.A.

RT-94 (On the theory of an electrode potential. I. The nature of the electrode potential and the question as to the possibility of calculating an absolute potential). A teorif elektrodrego potentiala. I. Sushchost' elektrodrego potentiala i vopres o voznoshnosti vychislentia absoliutnogo potentiala.

Zhumal Fizicheskoi Khimii, 22(11): 1397-1404, 1943.



KANEVSKIY, YE. A.

WOR/Chemistry - Balegon Bleetroles

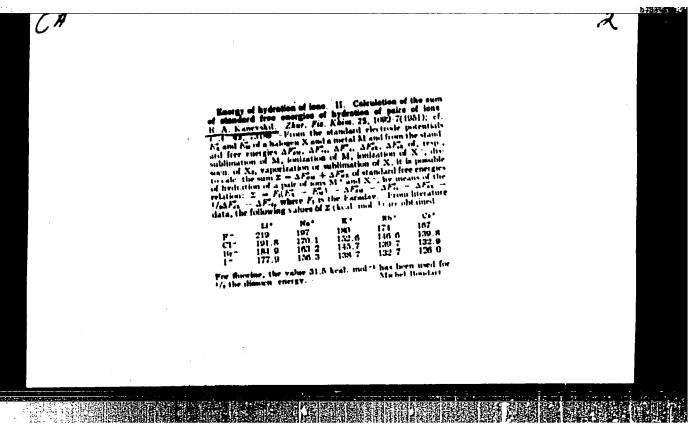
Jul 51

"Theory of Electrode Potential. II. Certain Problems of the Thermodynamic Theory of Electrode Potential," Ye. A. Kanevskiy, Moscow

"Zhur Fiz Khim" Vol XXV, No 7, pp 854-862

Discusses and develops methods for calen of abs (thermodynamic) electrode potentials and derives eqs for calen of abs electrode potentials of non-metallic F, Cl, Br, I, and H electrodes.

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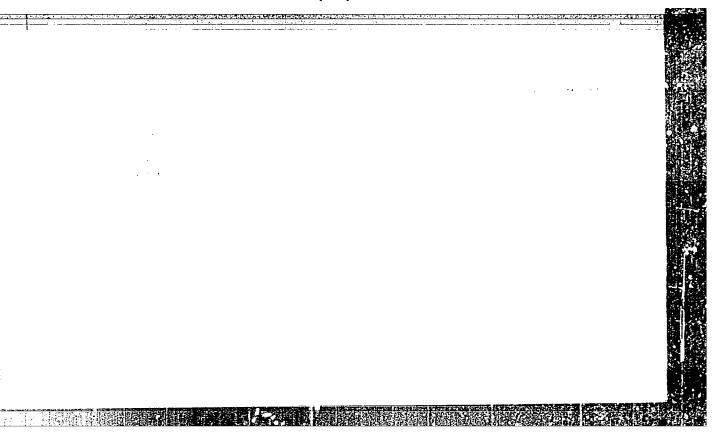
KANEVSKIY, YE. A.

UMER/Chemistry - Electrolysis, Thermodynamics May 58

"Theory of the Electrode Potential. III. Calculation of Free Energies of Electrode Processes and of Thermodynamic Electrode Potentials," Ye. A. Kanevskiy

"Zhur Fiz Khim" Vol XXVI, No 5, pp 633-641

Calcd the free energies of a number of electrode processes. Calcd the thermodynamic (abs) electrode potentials of a number of electrodes under std conditions. Showed that the results of these thermodynamic calcus and the conclusions made from them are in accordance with exptl facts, with those characteristics of electrode potentials which are known at present, and with the east of reversible galvanic electron.



KANEVSKIY Ye. A

USSR/ Chemistry - Physical Chemistry

Card 1/1

Author : Ershler, B. V.

Title : Discussion on the "absolute" scale of potentials (Discussion)

Periodical : Zhur. Fiz. Khim., 28, Ed. 5, 957 - 960, May 1954

Abstract : The report by E. A. Kanevskiy, published in the Journal of Physical Chemistry No. 27, 1953, and dealing in the subject of absolute scale of elec-

trode potentials is discussed and certain inconsistencies are pointed out. Most criticism pertains to the method of calculating the values called by

Kanevskiy the absolute potentials. Thirteen USSR references.

Institution : ...

Submitted: July 18, 1953

USSR/ Chemistry

Physical chamistry

Card

: 1/1

Pub. 147 - 9/25

Authors

: Kanevskiy, B. A.

Title

: Electrode and electrochemical potentials of an electron in metal

Periodical

2 Zhur. fis. khim. 28/7, 1228 - 1234, July 1954

Abstract

: The relation between the electrode potential and another value - electrochemical potential - which characterizes the presence of an electron in metal, was investigated. The importance of electrochemical potentials for the thermodynamics of multi-phase systems containing ions and electrons, is discussed. A method for accurate determination of the electrochemical potential (E. Lange and K. P. Mishchenko method), was introduced. Mine references: 6 USSR; 1 German and 1 USA (1918 -

1953).

Institution :

Submitted : August 11, 1953

WSR/ Physics - Physical chemistry

Card 1/1

• Pub. 147 - 9/21

Authors

* Kanevskiy, E. A.

Title

1 On the nature of an electrode potential

Periodical

Zhur. fiz. khim. A8, 1427-1433, Aug 1954

Abstract

The nature of the electrode potential in the case of metallic, oxidation-reduction, gaseous and second order electrodes, was investigated. The two basic phases of the electrode process, occurring in any reversible electrode, are elucidated. It was established that all reversible electrode potentials have one and the same thermodynamic and physical value. The electrode potentials indicate the ability of an electrode process in carrying out its work, They characterize the electrons in a metal (electrode) and represent the electrochemical potential of an electron in the electrode relative to the electron charge. Nine USSR references (1928-1954).

Institution : ..

Submitted : Octob

: October 5, 1953

20652 S/186/60/002/005/007/017 A051/A130

21,3100

AUTHORS:

Kanevskiy, Ye. A.; Fedorova, L. A.

TITLE:

The kinetics of U(IV) oxidation in solution with chlorates,

Ammonium persulfates and hydrogen Peroxide

PERIODICAL:

Radiokhimiya, v. 2, no. 5, 1960, 559 - 567

TEXT: The article deals with an investigation conducted by the authors on the oxidation kinetics of $U^{(IV)}$ in sulfuric acid solutions. Measurements of the process were made on the basis of determinations of $U^{(IV)}$ and $U^{(VI)}$ concentrations, using a C4-4 (SF-4) spectrophotometer. The concentrations were determined at a wave-length of 660 mmc for $U^{(IV)}$ and 410 mmc for $U^{(VI)}$. The advantage of the given method is said to be that the reaction investigated takes place directly in the cuyette of the spectrophotometer. It is pointed out that the kinetics of $U^{(IV)}$ oxidation in solutions using KClO3, $(NH_4)_2S_2O_8$ and H_2O_2 were investigated for the first time by the authors. Table 1 lists the results of experiments conducted on the oxidation of uranium in a 0.5M solution of H_2SO_4 , at various ratios of concentration of the $U^{(IV)}$ and oxidizing agent. The experimental data

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The kinetics of U(IV) oxidation S/186/60/002/005/007/017 A051/A130

showed that the oxidation processes of $U^{(IV)}$ in solution could be expressed by the following equations:

$$u(so_4)_2 + \frac{1}{3} kclo_3 + H_2O = uo_2so_4 + \frac{1}{3} kcl + H_2so_4;$$

$$u(so_4)_2 + (NH_4)_2s_2o_8 + 2H_2O = uo_2so_4 + (NH_4)_2so_4 + 2H_2so_4;$$

$$u(so_4)_2 + H_2o_2 = uo_2so_4 + H_2so_4.$$

Thus, one gram-mol of $U^{(IV)}$ is oxidized to $U^{(VI)}$ by $\frac{1}{3}$ g-mol of $KClO_3$, by one g-mol of $(NH_4)_2S_2O_8$, and one g-mol of H_2O_2 . Figure 1 shows the relationship of $U^{(IV)}$ concentration in a 0.5M solution of H_2SO_4 to the time, at various initial concentrations of the potassium chlorate. Formulae used to determine the order of the reaction with respect to uranium are given as follows:

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The kinetics of U(IV) oxidation ...

20652 S/186/60/002/005/007/017 A051/A130

$$v^{i} = kc_{1}(c_{2}^{i})^{n_{1}}c_{3}^{n}$$
 (1)

$$v'' = kC_1(C_2'')^{n_2}C_3^n$$
 (2)

where C_1 is the concentration of y(IV), C_2 - the concentration of $KClO_3$, C_3 - concentration of H^+ , v - rate of reaction, n_2 - order of the reaction with respect to the oxidizing agent, n_3 - order of the reaction with respect to the hydrogen ions. The rate of reaction of y(IV) oxidation with potassium chlorate is expressed through the equation:

$$v = k \left[U^{(IV)} \right] \left[KC10_3 \right]^{\frac{1}{3}} \left[H^+ \right]^{\frac{1}{3}}$$
 (3)

where k is the constant of the reaction rate. Table 2 is a list of the values of k computed from the above equation. It was established that the

Card 3/13

The kinetics of $U^{(IV)}$ oxidation

S/186/60/002/005/007/017 A051/A130

oxidation of $U^{(IV)}$ with potassium chloride, sodium and $HClO_{3}$ in sulfuric acid solutions is a reaction of the first order with respect to uranium and fractional order with respect to ClO_{3} and H^{+} . The rate of reaction is expressed by the equations:

$$v = k \left[\overline{y}^{(IV)}\right] \left[H^{+}\right]^{\frac{1}{3}} \left[clo_{3}^{-}\right]^{\frac{1}{3}}$$
(4)

$$\kappa_{D} = \frac{\left[H^{+}\right]\left[C10_{\overline{3}}\right]}{\left[HC10_{\overline{3}}\right]} \simeq 10^{3}$$
 (5)

(i.e., dissociation constant), and

$$v = kK_D^{\frac{1}{3}} \left[v^{(IV)} \right] \left[HC10_3 \right]^{\frac{1}{3}} \simeq 10k \left[v^{(IV)} \right] \left[HC10_3^{\frac{1}{3}} \right]$$
 (6)

Card 4/13 ...

The kinetics of U(IV) oxidation

S/186/60/002/005/007/017 A051/A130

The "acting start" of the oxidizing agent are said to be the non-dissociated molecules of HClO3. The authors state that the coinciding of the kinetic curves of the change of the U(IV) concentration, when using KClO3, NaClO3 and HClO3 as the oxidizing agents, leads to the conclusion that the cations Na⁺ and K⁺ have no effect on the oxidation kinetics. It was established that the oxidation of U(IV) with persulfate in sulfuric acid is a reaction of the first order with respect to uranium and the oxidizing agent. The rate of the process does not depend on the concentration of the hydrogen ions and is expressed through equation

$$v = k[v^{(IV)}][s_2o_8^{2-}]$$
 (8)

The results of one of the experiments conducted for the determination of the order of the reaction with respect to the oxidizing agent are given in Table 3. Figure 6 shows the kinetic curve of the concentration change of $\mathbf{U}^{(\mathrm{IV})}$ in solution at various concentrations of the hydrogen ions. Equation (8) shows that persulfates are energetic oxidizing agents in an alkaline medium, from the point of view of formal kinetics. The authors

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The kinetics of $U^{(IV)}$ oxidation

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stress the fact that the oxidation process of U(IV) in solution using hydrogen peroxide is a fast one, and that a mixing of the solution, prior to the start of measurements, has an effect on the kinetics of the process (Figure 7). A further conclusion is drawn that the oxidation of U(IV) in a sulfuric acid medium, using hydrogen peroxide is limited by diffusion. In discussing the question of the limiting stage of the process when using three investigated oxidizing agents, it is said that the rate of reaction of oxidation using hydrogen peroxide is limited by diffusion whereas, in the reaction of U(IV) with potassium chlorate and ammonium persulfate, the process is limited by the stage of oxidation. There are 4 tables, 7 figures and 9 references: 1 Soviet-bloc and 8 non-Soviet-bloc. The four recent English language publications read as follows: R. H. Betts, Can. J. Chem. 33, 1780, 1955; J. Halpern, J. G. Smith, Can. J. Chem., 34, 1427, 1956; T. W. Nowton, J. Phys, Chem., 62, 943, 1958; J. Halpern. Can. J. Chem., 37, 148, 1959.

Card 6/13

S/078/60/005/008/024/031/XX B023/B066

AUTHORS:

Kanevskiy, Ye. A., Pavlovskaya, G. R.

TITLE:

Polarographic Study of Sulfuric Acid Solutions of Hexavalent

Uranium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1738-1742

TEXT: Following papers by K. Rodden (Ref. 16), A. P. Vinogradov (Ref. 17), G. S. Tyurikov, K. I. Rosental', and V. I. Veselovskiy (Ref. 18) the authors studied some problems of uranium reduction and disproportionation in sulfuric acid solutions. The polarograms were taken on the polarograph (Geologorazvedka" built in 1955. Table 1 shows the values of id (ma) of the first, second, and third waves in 0.0007 mole UO2SO4 solution for a

concentration of 0.02-4.00 N. It may be seen that i_d of the first wave increases with increasing concentration of sulfuric acid, whereas i_d of the second wave decreases. The sum of i_d (I) and i_d (II) remains constant. The third wave which corresponds to the process $U(IV) \longrightarrow U(III)$, somewhat

Card 1/2____

Polarographic Study of Sulfuric Acid Solutions of Hexavalent Uranium

S/078/60/005/008/024/031/XX B023/B066

decreases with increasing $\rm H_2SO_4$ concentration. The viscosity of the solution was measured with Pinkevich's capillary viscosimeter. It may be concluded from the experimental data that the decrease of $\rm i_d$ of the first wave $\rm U(VI) \longrightarrow \rm U(V)$ on transition from 2N to 4N $\rm H_2SO_4$ is caused by the viscosity of the solution. The decrease of $\rm i_d$ of the third wave due to the process $\rm U(IV) \longrightarrow \rm U(III)$ cannot be ascribed to this effect. The half-wave potentials of the first, second, and third diffusion currents of the 0.0007 mole $\rm UO_2SO_4$ solution may be seen from Table 4. $\rm E_1/2$ of the first wave remains practically constant for all $\rm H_2SO_4$ concentrations considered. $\rm E_1/2$ of the third wave shows a similar behavior. $\rm E_1/2$ of the second wave, however, decreases on transition of 0.02 N to 1.0 N $\rm H_2SO_4$ solution. Fig. 2 shows the linear dependence of $\rm E_1/2$ of the second wave on the mean activity coefficient of sulfuric acid. There are 2 figures, 4 tables, and 19 references: 4 Soviet and 9 US.

Card 2/9_

S/078/60/005/009/002/017 B015/B064

21.3200 AUTHORS:

Spitsyn, Vikt. I., No

Neomeyanova, C. M., Kanavskiy, Ye. A.

TITLE:

Some Problems of the Thermodynamics Vand Kinetics of the

Dissolution of Uranium Oxides in Acid Medium

PERIODICAL:

Zhurnal neorganiche skoy khimii, 1960, Vol. 5, No. 9,

pp. 1938-1942

TEXT: The isobaric potentials of the dissolution processes were determined from publication data for UO₂100₇ and U₃0₈ in sulfuric acid solutions of varying concentrations considering complex formation. Besides, experiments were made on the dissolution of UO₂ and U₃0₈ in sulfuric acid solutions (150-1000 g/1) at 90°C; U⁴⁺ and U⁶⁺ were determined by the method developed by P. V. Volkov and I. P. Alimarin (Refs. 6,7). The values of the isobaric potentials of the UO₂, UO₃, and U₃0₈ dissolution processes show that especially in dilute sulfurio acid solutions, oxidizing agents should be used for dissolving UO₂ and U₃0₈. A comparison of the

Card 1/2

KANEVSKIY, Ye.A.; PAVIOVSKAYA, G.R.

Polarographic and coulometri study of sulfuric acid and perchloric acid solutions of uranium (VI). Zhur.neorg.khim. 5 no.9; 1964-1969 S '60. (Wranium compounds)

(Uranium compounds)

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KANEVSKIY. Ye.A.: FEDOROVA, L.A.

Mfect of complex formation by Use on the kinetics of its oxidation in a sulfuric acid solution. Zhur. neorg. khim. 5 no.10:2216-2219 (MIR: 13:10)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000520410008-1"

KANEVSKIY, Ye. A., PCHELKIN, V.A.

Effect of surface-active substances on the rate of solution of calcite in acids. Kin. i kat. 2 no.2:188-191 Mr-Ap '61.

(Surface active agents)

(Calcite)

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MARKET TO STATE OF ST

s/186/61/003/003/013/018 E071/E435

AUTHORS:

Kanevskiy, Ye.A. and Fedorova, L.A.

TITLE:

Kinetics of Oxidation of U(IV) With Hypochlorite in

PERIODICAL: Radiokhimiya, 1961, Vol.3, No.3, pp.339-347

Oxidation of tetravalent uranium in acid solutions with chlorate was reported previously by the authors (Ref.1: Radiokhimiya, 2, 5, 559 (1960)). In the present paper an investigation of the oxidation process with sodium hypochlorite in chloric and sulphuric acid solutions is described. experimental procedure was similar, the determination of concentrations of tetra and hexavalent uranium was done spectrophotometrically, the reaction being carried out in a cell of a spectrophotometer Co-4 (SF-4). Sodium hypochlorite used was recrystallized from aqueous solution, dried at 38°C and analysed The concentration of chlorate in a 0.176 M solution of hypochlorite was 0.01 M. It was found that hypochlorite is not a direct oxidizing agent; on introducing it into an acid solution, it decomposes into fast acting and slow acting

Kinetics of Oxidation ...

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The summary oxidizing equivalent of hypochlorite in respect of tetravalent uranium is equal to 2. the dependence of the velocity of the reaction on the complex Chemical analysis, formation and determination of the activation energy show that the slow acting part of the oxidant is chloric acid, formed as a result of disproportion reaction of hypochlorous acid. investigating the ratios between the amounts of tetravalent uranium oxidized by the two active parts of the oxidizing agent in an acid medium, as well as by adsorption spectra of the solutions, it was found that the fast acting part of the oxidant is chlorine The degree of participation of hypochlorous acid in disproportion reaction (3HC102 -2HC103 + HC1) and the formation of chlorine dioxide (HC102 + HC103 ->2C102 + H20) were determined. Experimental results obtained at a constant and at variable acidity indicate that the degree of participation of HC102 in the disproportion reaction decreases linearly with increasing hydrogen ion concentration, while its participation in the formation of chlorine dioxide is independent of either the concentration of the oxidant or the medium in which the reaction takes place,

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